

Claims

1. A traveller for a fall arrest system comprising:

a body having a passage therethrough, a slot narrower than the passage linking the passage to the exterior of the body, and a load member suitable to attach the traveller to fall safety equipment, the slot being formed between an inner gate extending outwardly relative to the passage and an outer gate extending inwardly relative to the passage, the inner gate and outer gate having respective opposed convex surfaces defining the slot between them, the traveller being arranged such that when the traveller is mounted on a support the inner gate and outer gate lie on a common radius of respective concentric circles about the support.

2. A support for a safety line in a fall arrest system comprising a support

section suitable for retaining a safety line and attachment means for attaching the support to a structure, the supporting section and the attachment means being connected by an arm, the arm having a tangential section narrower than the safety line and extending substantially tangentially relative to a safety line retained in the supporting section.

3. A fall arrest system comprising a safety line, at least one support and a

traveller, in which the support comprises a support section retaining the safety line and an attachment means for attaching the support to a structure, the support section and attachment means being connected by an arm having a tangential section narrower than the safety line and extending substantially tangentially relative to the safety line, and the

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traveller comprising a body having a passage therethrough, a slot narrower than the safety line linking the passage to the exterior of the body and a load member suitable to attach the traveller to fall safety equipment, the slot being formed between an inner gate and an outer gate having respective opposed surfaces defining the slot between them, the inner gate and outer gate being arranged such that when the traveller is mounted on the support within the passage the tangential section of the arm can pass through the slot.

4. A fall arrest system as claimed in claim 3, in which the inner gate extends outwardly relative to the passage, the outer gate extends inwardly relative to the passage, and the slot is defined between convex opposed surfaces of the inner and outer gates.

5. A fall arrest system as claimed in claim 3 or 4, in which the traveller is arranged so that when the traveller is mounted on the support the inner gate and outer gate lie on a common radius of respective concentric circles about the safety line.

6. Apparatus according to any one of claims 2 to 5, in which the support section is a cylindrical tube.

7. Apparatus according to any one of claims 2 to 6 in which the tangential section is spaced from the support section.

8. Apparatus according to any one of claims 2 to 7, in which the tangential section is a flat plate.

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9. Apparatus according to any one of claims 2 to 8, in which the tangential section and the support section are connected by a linking section, the linking section extending in a direction having a radial component relative to said safety line.
10. Apparatus according to claim 9, in which the attachment means, tangential section and support section are integrally formed from a single plate.
11. Apparatus according to any one of claim 1 or 3 to 5, in which the traveller has two wheels arranged in tandem so that the traveller can be mounted on the wheels on a safety line passing through the passage.
12. Apparatus according to claim 11, in which the load member is located below and between said wheels when the traveller is mounted on the wheels on a safety line.
13. Apparatus according to claim 12, in which the load member is a closed aperture passing through the body.
14. Apparatus according to claim 13, in which the wheels are arranged for rotation about respective parallel axes, and the aperture has a flat lower surface extending parallel to a plane in which said axes lie.

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15. Apparatus according to claim 14, in which said axes are symmetrically arranged about a longitudinal centre line of the traveller and said lower surface lies on said centre line.

16. A traveller substantially as shown in or as described with reference to Figures 1, 2 or 4 to 6 of the accompanying drawings.

17. A support substantially as shown in or as described with reference to Figures 1 or 3 of the accompanying drawings.

18. A fall arrest system substantially as shown in or as described with reference to the accompanying drawings.